

# D4 - SERIES

## SPECIFICATIONS AND ORDERING INFORMATION

36.51 mm DIAMETER 1.5 AMPS @ 28 VDC

The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism and is available with up to 12 positions and 30° or 60° indexing.



### SPECIFICATIONS

#### ELECTRICAL

**Current and Voltage Rating:** Make and break resistive load 1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

**Current Carrying Capacity:** 9 amps.

**Dielectric Strength:** 1,500 VAC between current carrying parts and ground.

**Contact Resistance:** Average initial 3.5 milliohms.

**Insulation Resistance:** Glass epoxy in excess of 750,000 megohms.  
Ceramic in excess of 1,000,000 megohms.  
Diallyl in excess of 900,000 megohms.

**Hardware:** Mounting nut and lockwasher are shipped assembled.

#### MECHANICAL

**Materials and Finishes:** All parts utilize non-corrosive materials as standard.

**Clips and Rotors:** Brass with silver plate as standard.

**Insulation:** Glass epoxy, ceramic, or diallyl phthalate.

**Index:** Single-ball, hill and valley.

**Index Life:** 25,000 cycles minimum.

**Index Torque:** Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

**Index Angles:** Positive 30° standard, 60° available.

**Index Stops:** Adjustable standard, fixed or continuous.

**Stop Strength:** 1.13 Nm minimum.

### STANDARD PART NUMBER

#### GLASS EPOXY INSULATION

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

| ACTIVE<br>POLES | POLES/<br>POSITIONS | POLES/<br>SECTION | NO. OF<br>SECTIONS | SHORTING | NON-<br>SHORTING | FIG.<br>★ |
|-----------------|---------------------|-------------------|--------------------|----------|------------------|-----------|
| 01              | 02-11               | 1                 | 1                  | D4G0111S | D4G0111N         | DA        |
| 02              | 02-11               | 1                 | 2                  | D4G0211S | D4G0211N         | DA        |
| 02              | 02-05               | 2                 | 1                  | D4G0205S | D4G0205N         | DG        |
| 03              | 02-11               | 1                 | 3                  | D4G0311S | D4G0311N         | DA        |
| 03              | 02-03               | 3                 | 1                  | D4G0303S | D4G0303N         | DM        |
| 04              | 02-11               | 1                 | 4                  | D4G0411S | D4G0411N         | DA        |
| 04              | 02-05               | 2                 | 2                  | D4G0405S | D4G0405N         | DG        |
| 05              | 02-11               | 1                 | 5                  | D4G0511S | D4G0511N         | DA        |
| 06              | 02-11               | 1                 | 6                  | D4G0611S | D4G0611N         | DA        |
| 06              | 02-05               | 2                 | 3                  | D4G0605S | D4G0605N         | DG        |
| 06              | 02-03               | 3                 | 2                  | D4G0603S | D4G0603N         | DM        |
| 09              | 02-03               | 3                 | 3                  | D4G0903S | D4G0903N         | DM        |

#### CERAMIC INSULATION

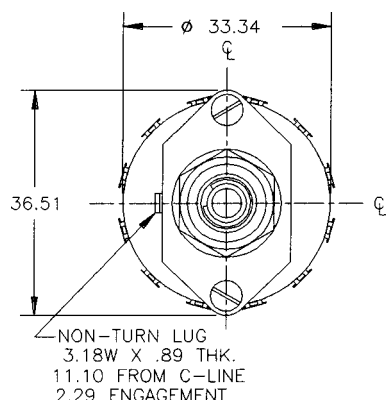
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

| ACTIVE<br>POLES | POLES/<br>POSITIONS | POLES/<br>SECTION | NO. OF<br>SECTIONS | SHORTING | NON-<br>SHORTING | FIG.<br>★ |
|-----------------|---------------------|-------------------|--------------------|----------|------------------|-----------|
| 01              | 02-12               | 1                 | 1                  | D4C0112S | D4C0112N         | DD        |
| 02              | 02-12               | 1                 | 2                  | D4C0212S | D4C0212N         | DD        |
| 02              | 02-06               | 2                 | 1                  | D4C0206S | D4C0206N         | DL        |
| 03              | 02-12               | 1                 | 3                  | D4C0312S | D4C0312N         | DD        |
| 03              | 02-05               | 3                 | 1                  | D4C0305S | D4C0305N         | DO        |
| 04              | 02-12               | 1                 | 4                  | D4C0412S | D4C0412N         | DD        |
| 04              | 02-06               | 2                 | 2                  | D4C0406S | D4C0406N         | DL        |
| 05              | 02-12               | 1                 | 5                  | D4C0512S | D4C0512N         | DD        |
| 05              | 02-03               | 5                 | 1                  | D4C0503S | D4C0503N         | DR        |
| 06              | 02-12               | 1                 | 6                  | D4C0612S | D4C0612N         | DD        |
| 06              | 02-06               | 2                 | 3                  | D4C0606S | D4C0606N         | DL        |
| 06              | 02-05               | 3                 | 2                  | D4C0605S | D4C0605N         | DO        |

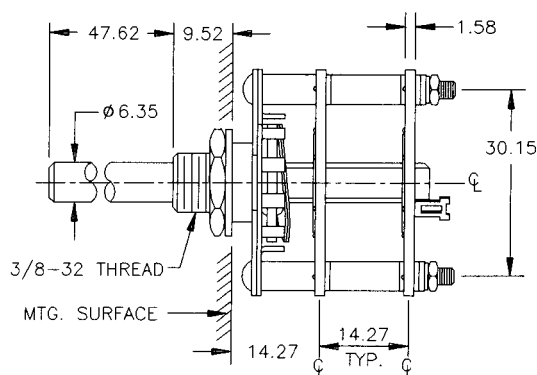
\* FIGURES ARE SHOWN ON PAGES 55 AND 56.

### DIMENSIONS

#### STANDARD CONSTRUCTION



#### D4G - STANDARD GLASS EPOXY CONSTRUCTION



**ELECTROSWITCH** • ELECTRONIC PRODUCTS  
UNIT OF ELECTRO SWITCH CORP.

2010 Yonkers Road, Raleigh, NC 27604

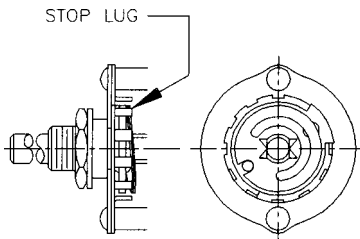
## How to Order Additional Options:

| 2 DIGIT SERIES | INSULATION TYPE                        | TOTAL POLES | ACTIVE POSITIONS                 | CONTACT TYPE                     | TERMINAL TYPE                   | INDEX ANGLE | STOP TYPE                          | SHAFT/ BUSHING | SHAFT FLAT    |
|----------------|----------------------------------------|-------------|----------------------------------|----------------------------------|---------------------------------|-------------|------------------------------------|----------------|---------------|
| D4             | G - GLASS<br>C - CERAMIC<br>D - DIALYL | 01 - MIN.   | 12 - MAX @ 30°<br>06 - MAX @ 60° | N - NON SHORTING<br>S - SHORTING | L - SOLDER LUG<br>R - REAR P.C. | 30°<br>60°  | A - ADJ.<br>F - FIXED<br>C - CONT. | SEE CHART "A"  | SEE CHART "B" |

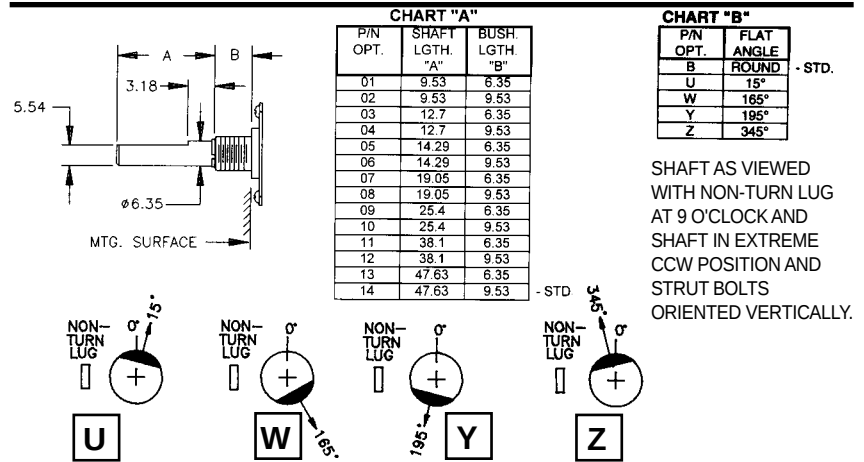
| CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS |          |           |           |           | ADDITIONAL OPTIONS |           |           |           |           |
|-------------------------------------------------------|----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|-----------|
| <b>D</b>                                              | <b>4</b> |           |           |           |                    |           |           |           |           |
|                                                       |          | (SPECIFY) | (SPECIFY) | (SPECIFY) | (SPECIFY)          | (SPECIFY) | (SPECIFY) | (SPECIFY) | (SPECIFY) |

### ADJUSTABLE STOP MECHANISM



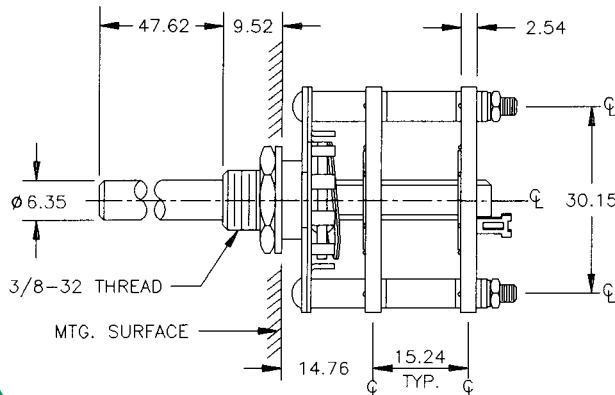
REMOVE STOP LUGS TO ACHIEVE MORE POSITIONS.

### SHAFT, BUSHING, AND FLAT OPTIONS

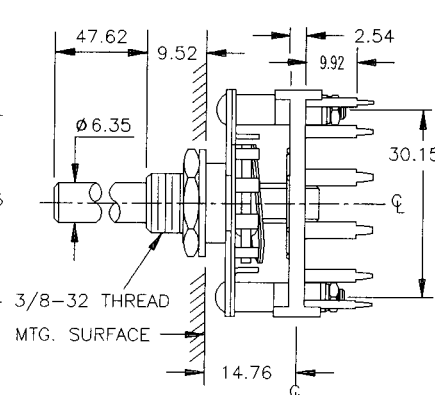


### INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

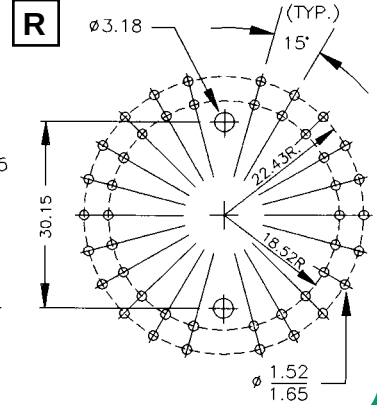
#### D4C - CERAMIC CONSTRUCTION



#### D4D - DIALYL PHTHALATE CONSTRUCTION



#### DIALYL PHTHALATE P.C. BOARD MOUNTING PATTERN



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.